

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A heating device, comprising:

a heating part ~~having~~ including at least one heat generation part generating heat;
an electricity storage device supplying electric power at a variable output voltage to the heating part, said electricity storage device ~~having~~ including at least one chargeable-dischargeable capacitor;

a control part ~~controlling~~ configured to control the variable output voltage of the electricity storage device by setting the variable output voltage, when the temperature detected by the temperature detection part is higher than or equal to a predefined temperature, to one of a plurality of values such that said voltage of the capacitor is lower than or equal to a maximum voltage of the capacitor; and

a temperature detection part detecting a temperature of a portion heated by the heat generation part,

wherein the at least one heat generation part generates heat by using electric power supplied from the electricity storage device, ~~and when the temperature detected by the temperature detection part is higher than or equal to a predefined temperature, the control part sets a voltage of the capacitor such that said voltage of the capacitor is lower than or equal to a maximum voltage of the capacitor.~~

2. (Currently Amended) A fixing device for fixing an image on a recording medium, comprising: [[a]]

the heating device claimed in claim 1; and, comprising:

~~a heating part having at least one heat generation part generating heat;~~

~~an electricity storage device supplying electric power at a variable output voltage to the heating part, said electricity storage device having at least one chargeable-dischargeable capacitor;~~

~~a control part controlling the output voltage of the electricity storage device; and~~

~~a temperature detection part detecting a temperature of a portion heated by the heat generation part, wherein the heat generation part generates heat by using electric power supplied from the electricity storage device, and when the temperature detected by the temperature detection part is higher than or equal to a predefined temperature, the control part regulates a voltage of the capacitor such that said voltage of the capacitor is lower than or equal to a maximum voltage of the capacitor; and~~

a fixing part heated by the at least one heat generation part,

wherein the recording medium passes in contact with or near the fixing part.

3. (Currently Amended) An image forming apparatus, comprising:

a fixing device ~~for fixing~~ configured to fix an image on a recording medium, comprising: a and including,

the heating device claimed in claim 1, and ~~comprising: a heating part having at least one heat generation part generating heat; an electricity storage device supplying electric power at a variable output voltage to the heating part, said electricity storage device having at least one chargeable-dischargeable capacitor; a control part controlling the output voltage of the electricity storage device; and a temperature detection part detecting a temperature of a portion heated by the heat generation part, wherein the heat generation part generates heat by using electric power supplied from the electricity storage device, and when the temperature detected by the temperature detection part is higher than or equal to a predefined temperature, the control part~~

~~regulates a voltage of the capacitor such that said voltage of the capacitor is lower than or equal to a maximum voltage of the capacitor; and~~

a fixing part heated by the at least one heat generation part, wherein the recording medium passes in contact with or near the fixing part,

wherein the temperature detection part is disposed in an interior of the image forming apparatus, and when a temperature of the interior is higher than or equal to a predefined temperature, the control part regulates ~~[[a]]~~ the voltage of the capacitor such that said voltage of the capacitor is lower than or equal to ~~[[a]]~~ the maximum voltage of the capacitor.

4. (Currently Amended) An image forming apparatus, comprising:

a fixing device ~~for fixing~~ configured to fix an image on a recording medium, ~~comprising; and including~~ a heating device ~~comprising; including~~,

a heating part ~~having~~ including at least one heat generation part generating heat₁[[;]]

an electricity storage device supplying electric power at a variable output voltage to the heating part, said electricity storage device having at least one chargeable-dischargeable capacitor₁[[;]]

a mode detection part configured to detect an operational mode of the image forming apparatus,

a control part ~~controlling~~ configured to control the variable output voltage of the electricity storage device by regulating a voltage of the capacitor such that said voltage of the capacitor is lower than or equal to a maximum voltage of the capacitor when the operational mode detected by the mode detection part is a save mode, and ~~[[; and]]~~

~~a mode detection part detecting an operational mode of the image forming apparatus;~~

wherein the at least one heat generation part generates heat by using electric power supplied from the electricity storage device, and ~~when the operational mode detected by the mode detection part is a save mode, the control part regulates a voltage of the capacitor such that said voltage of the capacitor is lower than or equal to a maximum voltage of the capacitor; and~~

a fixing part heated by the at least one heat generation part,

wherein the recording medium passes in contact with or near the fixing part.

5. (Currently Amended) A fixing device for fixing a toner on a sheet, comprising:
at least one electricity storage device;

a heat generation part generating heat by using electric power supplied from the at least one electricity storage device;

a fixing member heating the toner on the sheet to fix the toner on the sheet, said fixing member heated by the heat generation part; and

a power control part ~~controlling~~ configured to control the supply of electric power from ~~[[not an]]~~ at least one of an external power source ~~[[but]]~~ and the at least one electricity storage device to the heat generation part.

6. (Currently Amended) The fixing device as claimed in claim 5, wherein the at least one electricity storage device comprises a capacitor.

7. (Currently Amended) The fixing device as claimed in claim 5, wherein the power control part controls ~~[[to]]~~ the supply of electric power from not the external power source but the at least one electricity storage device to the heat generation part at a start time ~~[[of]]~~ for supplying power supply thereto.

8. (Currently Amended) The fixing device as claimed in claim 5, wherein the power control part, when the unheated fixing member is heated to a toner fixable temperature,

supplies electric power from not the external power source but from the at least one electricity storage device to the heat generation part.

9. (Currently Amended) The fixing device as claimed in claim 5, wherein the power control part, when a temperature of the fixing member drops due to passage of one or more sheets, supplies electric power from not the external power source but from the at least one electricity storage device to the heat generation part.

10. (Currently Amended) The fixing device as claimed in claim 5, wherein the power control part comprises:

a selection part alternately selecting one of a first mode and a second mode, said first mode in which electric power is supplied from not the external power source but from the at least one electricity storage device to the heat generation part, said second mode in which electric power is supplied from not the at least one electricity storage device but from the external power source to the heat generation part.

11. (Currently Amended) The fixing device as claimed in claim 5, wherein the power control part comprises:

a selection part alternately selecting one of a first mode and a second mode, said first mode in which electric power is supplied from not the external power source but from the at least one electricity storage device to the heat generation part, said second mode in which electric power is supplied from both of the at least one electricity storage device and the external power source to the heat generation part.

12. (Currently Amended) The fixing device as claimed in claim 5, wherein the heat generation part comprises a plurality of heaters, and at least one of the plurality of heaters is connected to the at least one electricity storage device and the external power source to receive electric power from the at least one [[of the]] electricity storage device and the external power source.

13. (Currently Amended) An image forming apparatus, comprising:

[[a]] the fixing device as claimed in claim 5, for fixing a toner on a sheet, comprising:
~~at least one electricity storage device; a heat generation part generating heat by using electric power supplied from the electricity storage device; a fixing member heating the toner on the sheet to fix the toner on the sheet, said fixing member heated by the heat generation part; and a power control part controlling to supply electric power from not an external power source but the electricity storage device to the heat generation part,~~

wherein the sheet on which a toner image is formed in accordance with an electrophotographic method is carried to the fixing device.

14. (New) A heating device, comprising:

a heating part including at least one heat generation part generating configured to generate heat;

an electricity storage device supplying configured to supply electric power at a variable output voltage to the heating part, said electricity storage device including at least one chargeable-dischargeable capacitor;

means for controlling the variable output voltage of the electricity storage device by setting the variable output voltage, when the temperature detected by the temperature detection part is higher than or equal to a predefined temperature, to one of a plurality of values such that said voltage of the capacitor is lower than or equal to a maximum voltage of the capacitor; and

a temperature detection part configured to detect a temperature of a portion heated by the heat generation part,

wherein the at least one heat generation part generates heat by using electric power supplied from the electricity storage device.

15. (New) A fixing device for fixing a toner on a sheet, comprising:

at least one electricity storage device;

a heat generation part configured to generate heat by using electric power supplied from the at least one electricity storage device;

a fixing member configured to heat the toner on the sheet to fix the toner on the sheet, said fixing member heated by the heat generation part; and

means for controlling the supply of electric power from at least one of an external power source and the at least one electricity storage device to the heat generation part.